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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------|-----------------|----------------------|-------------------------|------------------|
| 10/657,848 | 09/09/2003 | Sami Issa | 13590US02 2127 | |
| 23446 | 7590 03/10/2004 | | EXAMINER | |
| MCANDREWS HELD & MALLOY, LTD | | | HOANG, HUAN | |
| 500 WEST MADISON STREET | | ART UNIT | PAPER NUMBER | |
| SUITE 3400 | | | ARTONII | TATER NOMBER |
| CHICAGO, | IL 60661 | | 2818 | |
| | · | | DATE MAILED: 03/10/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | |
|---|--|--|--|--|--|--|--|
| Office Action Summary | | 10/657,848 | ISSA, SAMI | | | | |
| | | Examiner | Art Unit | | | | |
| | | Huan Hoang | 2818 | | | | |
| | The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | |
| Status | | | | | | | |
| 1)⊠ 2a)□ 3)□ | a)☐ This action is FINAL . 2b)☒ This action is non-final. | | | | | | |
| Disposit | ion of Claims | | | | | | |
| 5)□ 6)⊠ 7)□ | · · | | | | | | |
| Applicat | ion Papers | | | | | | |
| 10) | The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex | epted or b) objected to by the bedrawing(s) be held in abeyance. See tion is required if the drawing(s) is obj | e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d). | | | | |
| Priority (| ınder 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| | e of References Cited (PTO-892) | 4) Interview Summary | | | | | |
| 3) 🔲 Infor | ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate Patent Application (PTO-152) | | | | |

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DETAILED ACTION

The Preliminary Amendment filed on 09/09/03 has been received and entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 24-32 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the connections between the first transistor and the second transistor.
- 3. Claim 37 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 37 recites the limitation "said second voltage" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Double Patenting

4. Claims "24, 25", "26", "27", "28", "29", "30", "31" and "32" are rejected under the judicially created doctrine of obviousness-type double patenting as

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being unpatentable over claims 1-7 and 9, respectively, of U.S. Patent No. 6,650,563. In addition, claims "33, 34", "35, 36, 37", "38", "39", "40", "41", "42", "43", "44", "45", "46" and "47 are also rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 10-18 and 20-22, respectively. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 24-32 and claims 33-47 are anticipated by claims 1-7, 9-18 and 20-22 of the patent.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 24-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al..

Chang et al. discloses a memory cell (40, Fig. 5) having all the elements as recited in claims 24-31 as follows:

- a first transistor (47, Fig. 5);
- a second transistor (45, Fig. 5) having a second drain node, a second source that is electrically floating (column 5, lines 53-54), and a second gate node that is connected to a bias voltage level (ground).

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yamamoto et al. discloses a non-volatile memory device.

Gotou et al. discloses memory cells and memory devices with storage capacitor of parasitic capacitance.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huan Hoang Primary Examiner Art Unit 2818

HH 3/2/04.